Slurry Loop Project (SLP) Weekly Update

Slurry Loop Project Team members: Morrad Battah (PE), Scott Nygaard (PE), Kareem Key (PE), Foued Badrouchi (PE), Alyssa Stolt (ME), Keith Timm (ME)

January 23rd 2018
- Kick off meeting
- Review of the project objectives

January 30th 2018
- Visited the planned lab area for the SL to be hosted.
- Measured dimension of the housing for the Slurry Loop
- Determine the dimension of the SL
- Creation of calendar of events
- Continue researching previous similar projects

February 6th 2018
- Discussion about the Piping, Motor/pump, Volumes for tanks (sand, water, additive, mixer)
- Construct scheduling up until purchase of materials
- Propose dimensions for piping
- Discussed about drawing schematic of the loop
February 8th 2018

- Discussed changes/ modifications needed
- Presented solutions to problems in designing the annulus
- Construct basic schematic for the Slurry Loop

February 12th 2018

- Construct schematic for Slurry Loop including Pipe dimensions, Testing instruments, Discussion of annulus, Sizing for tanks
- Run calculations to see if pump gifted will meet slurry loop designs
- Discuss weight of slurry and flow rates

Record specifications of existing slurry pump for the use in the project

Taking apart second pump to find specifications
Fluid inflow compartment of pump #2

February 15th 2018

- Finalized dimensions for piping including annulus space, drill piping, hoses, fittings/converters
- Finished schematic for ME’s to construct Slurry Loop in online software
- Research on additives and sand to be used

Finalized schematic for Slurry Loop Project

February 24th 2018

- Petroleum Engineers visit LSU campus for PetroBowl
- Mechanical Engineers started designing first steps on ANSYS
- Discussed particle size and concentrations
- Finalized budget estimate for building the slurry loop